BEAVER GYPSUM LATH

A CERTAIN-TEED PRODUCT

BEAVER GYPSUM LATH IS *Fire proof*

Gypsum Lath stops fire and protects wood members behind it by preventing transmission of heat. This house was saved from complete destruction by the gypsum lath.

Beaver Gypsum Lath is fire-proof! Think what that means to the homeowner. The threat of a fire is always present. A defective electrical connection, a careless smoker and a dozen other things at any moment can turn this threat into a reality. But walls and ceilings lathed with Beaver Gypsum Lath are covered with a fire-proof material, which by retarding the spread of flames, may avert a tragedy, and save the home from total destruction when a fire occurs.

Gypsum is unique as a fire retardant. It not only refuses to burn or support combustion, the fundamental property we associate with all fire-proof materials, but it refuses to permit high temperatures to pass through it. So long as the gypsum covering is intact, wood protected by gypsum lath cannot be raised to a temperature that will ignite it. Even steel is protected from weakening temperatures when encased in gypsum.

In every home all of the advantages of frame construction can be enjoyed with greater safety when wood members are protected with Beaver Gypsum Lath. And, this extra protection can be obtained at little or no *extra* cost! In most localities walls or ceilings plastered over Beaver Gypsum Lath cost no more than those over combustible lath bases which do not protect you.

THE PERFECT BASE FOR PLASTER

Beaver Gypsum Lath is light and strong. The application of Certain-teed's patented treatments and processes for calcined gypsum gives a maximum of strength and density to the core structure of Beaver Gypsum Lath and yet results in a light weight product. The standard size ⅜″ x 16″ x 48″ weighs approximately 1400 lbs. per thousand square feet.

The fireproof gypsum core is sheathed with tough fibrous paper, tightly bonded to the core. This paper is manufactured under Certain-teed's own formulae. With Certain-teed's exclusive process of graduated sizing the center stock is sized to form an efficient water barrier. The surfaces of the paper consist of sufficient unsized liner to give proper suction and ease of application. These features make the product outstanding.

The great strength and rigidity of Beaver Gypsum Lath adds greatly to the structural strength of the walls and ceilings to which it is applied.

ECONOMICAL TO APPLY

Beaver Gypsum Lath is easy and economical to apply. The rounded edges on the long sides are protected with the same tough paper used on the surfaces. The cut edges are treated, which improves nailing qualities and lessens the chance of breakage and nicked edges.

Beaver Gypsum Lath cuts cleanly and easily without waste. Compared with ordinary lath it requires much less handling and approximately half the nailing. Because of its easy cutting, it is conveniently fitted around openings and into odd shaped corners. Unlike wood lath it does not require wetting or other treatment prior to plastering.

All these features give a finished, economical job.

BEAVER GYPSUM LATH SAVES LABOR AND MATERIAL IN PLASTERING

The surface of the lath gives enough suction to prevent droppings and assure proper bond, but yet not so much suction that the plaster is hard to apply. The strong, even suction of the tough fibrous lath surface prevents "slipping" of the plaster, and, with the help of the graduated sizing in the surface paper, eliminates the possibility of later troubles.

The surface of the lath receives *all* of the plaster—none of it is wasted in mechanical keys. This feature means an approximate saving of 20% in plaster—20% less material to buy and 20% less material requiring the time and labor of application.

It is easy to plaster over Beaver Gypsum Lath and the solid surface saves both labor and material.

HELPS PREVENT CRACKS

Beaver Gypsum Lath will not warp, buckle, expand, or contract. By keeping moisture or wet plaster away from absorbent wood members it prevents much swelling and consequent shrinking, principal causes of plaster cracks.

Because Beaver Gypsum Lath adds great structural strength to the entire building, it helps to prevent cracks due to the movement of frame members.

SIZES AND THICKNESSES

Standard sizes of Beaver Gypsum Lath are 16″ x 48″ and 16″ x 32″, ⅜″ thick. Bundles of the popular 16″ x 48″ size contain six pieces (32 square feet) and weigh about 40 lbs. Bundles of the 16″ x 32″ size contain nine pieces (32 square feet) and weigh the same.

Standard sizes of Beaver Insulating Gypsum Lath (Reflective Insulation) are 16″ x 48″ and 16″ x 32″, ⅜″ thick. Larger size packed six pieces to the bundle and the smaller size nine pieces to the bundle, each bundle containing 32 square feet.

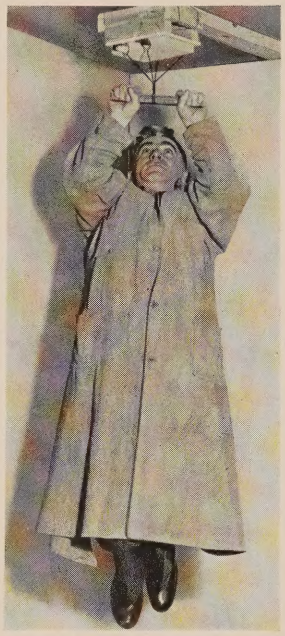
Standard size of Beaver Perforated Gypsum Lath is 16″ x 48″, ⅜″ thick. Packed six pieces to the bundle, containing 32 square feet.

PROVIDES A RIGID, LASTING INTERIOR FINISH

The bond of plaster to Beaver Gypsum Lath is obtained by the interlacing of minute needle crystals of gypsum, formed as the plaster sets, with fibres of the tough lath paper. Actual tests indicate that this bond is stronger than is obtained on other materials used as plaster base.

The illustration at the right shows a 150-lb. man hanging from a support embedded in plaster applied to Beaver Gypsum Lath. Notice that this bond is strong enough to support the man. Not only is this bond very strong but it is permanent.

Plastered walls have always provided a rigid, lasting, interior finish superior to any other type of wall because plaster readily adapts itself to any type of decoration and does not show joints.



The appearance of the finished wall, of course, depends to a large degree on the base over which the plaster is applied. Plaster properly applied over gypsum lath will be free from cracks because gypsum lath does not expand, contract, warp, or buckle. The uniform thickness helps to provide straight, true walls. For walls that are permanent, beautiful and fireproof, Beaver Gypsum Lath as a plaster base is unexcelled.

The picture below indicates the kind of wall good workmanship and good materials make possible when Beaver Gypsum Lath is used. And the cost of walls using Beaver Gypsum Lath is not much different from inferior ones. Their freedom from trouble, also, makes them economical.

BEAVER INSULATING GYPSUM LATH
(REFLECTIVE INSULATION)

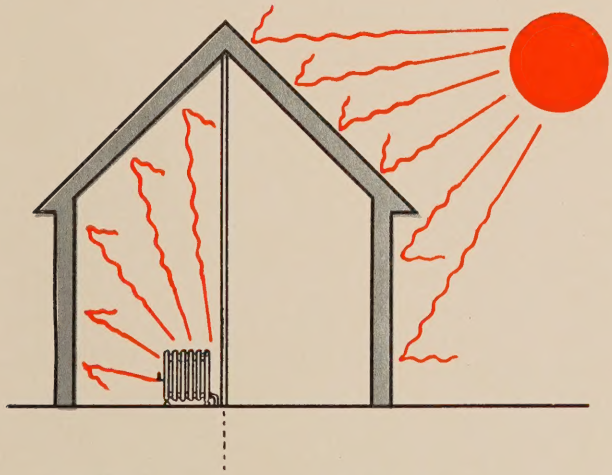
Beaver Insulating Gypsum Lath (Reflective Insulation) gives triple value:

PLASTER BASE
FIREPROOFING
INSULATION

U. S. Bureau of Standards tests show that aluminum, which is the reflective material used on this lath, turns back 90 to 95% of the radiant heat. The principle of reflective insulation has been tested and proven.

The quality of Beaver Gypsum Lath has been proved, and now Reflective Insulation is added. The metallized surface which is applied to the water-resistant, tough fibre surface as additional covering provides effective insulation not heretofore available in this type of product. This means that with one cost of application you get a fire-proof plaster base plus insulation—a double effect at a single cost.

HERE'S HOW IT WORKS



WINTER

Arrow shows how radiant heat striking reflective surface of lath is reflected back into the house.

SUMMER

The sun's rays striking the reflective surface of the insulation are turned back without penetrating.

Many tests made show that aluminum foil retains its insulating efficiency over a long period of time.

This lath saves on heat, keeps the house cooler in summer, pays for itself in fuel savings, costs so little extra you won't notice the difference on the bills for your house. It can be applied in new homes or used in remodeling old homes.

The comparison of Reflective Insulation with other types of construction is shown in the table below:

INTERIOR FINISH	U	%
Wood Lath and ½″ of Plaster	.244	100.0
Metal Lath and ¾″ of Plaster	.255	95.7
⅜″ Gypsum Insulating Lath and ½″ of Plaster	.186	131.2

U — is the coefficient of transmission in Btu's per hour, per square foot, per degree F. difference in temperature, air to air.

% — is the ratio in per cent of the insulation value of the construction indicated to wall with wood lath and plaster finish.

BEAVER PERFORATED GYPSUM LATH

passes ONE HOUR *fire test*

In tests conducted by the Bureau of Standards, Gypsum Lath proved its ability to offer greater fire protection. At the conclusion of these tests a perforated lath partition, when plastered in the approved manner, was shown to have qualified for a one hour fire rating. During the test water as well as fire was applied, yet this material withstood the test and showed a considerable margin of safety.

BEAVER PERFORATED GYPSUM LATH IS THE CHOICE OF LATHERS, PLASTERERS, ARCHITECTS, AND HOMEOWNERS BECAUSE IT BUILDS STRONG, FIRE-PROOF WALLS THAT RESIST CRACKING.

TWO-WAY BOND. Beaver Perforated Gypsum Lath full 3/8″ thick holds the plaster to it in two ways:

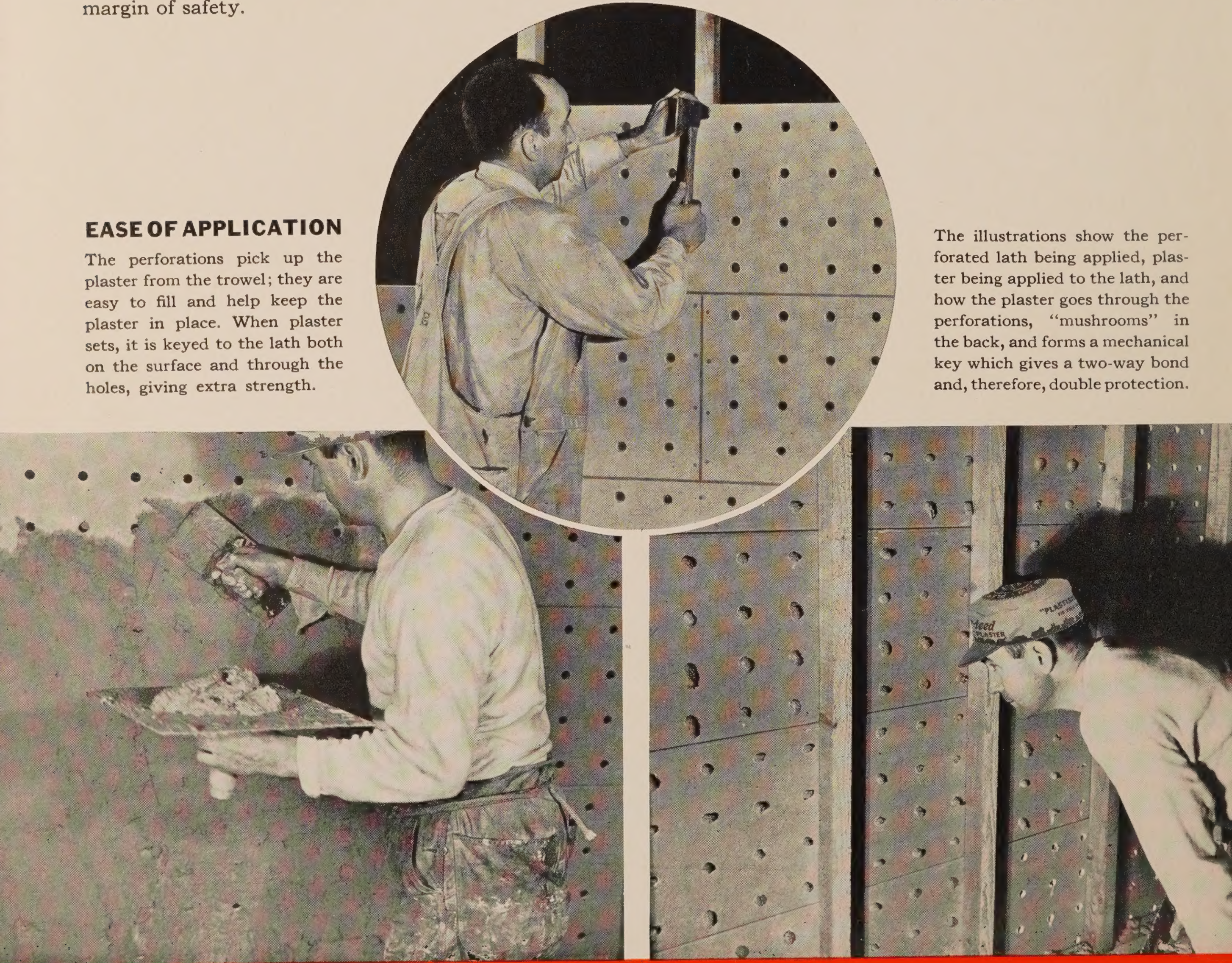
(1) By a natural bond of the plaster with the specially prepared surface.

(2) By a mechanical key furnished by the 3/4″ holes in which the plaster "keys" itself through these holes and "mushrooms" on the back of the lath.

EASE OF APPLICATION

The perforations pick up the plaster from the trowel; they are easy to fill and help keep the plaster in place. When plaster sets, it is keyed to the lath both on the surface and through the holes, giving extra strength.

The illustrations show the perforated lath being applied, plaster being applied to the lath, and how the plaster goes through the perforations, "mushrooms" in the back, and forms a mechanical key which gives a two-way bond and, therefore, double protection.



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General Offices: NEW YORK, N. Y.

Form No. 5526

PRINTED IN U.S.A.